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- (iii) computing a surface normal for said fiducial object location by interpolating said surface normals associated with said nodes of each of said planar surfaces on which said fiducial object is located.

### REMARKS

New claims 82 and 83 are presented for examination. Upon entry of this amendment, claims 39-83 are now pending.

Applicants respectfully submit that the Specification and the Drawings fully support the claims. No new matter is being added hereby.

### New Claims 82 and 83

New claims 82 and 83 are provided to distinctly claim the subject matter of the invention. Each of the new claims is fully supported by the Specification and adds no new matter. Support for each new claim is found generally throughout the Specification and Drawings, and particularly at least at the locations outlined below.

New Claim	Support in Specification specifically at:
82	page 8, lines 10-15; page 9, lines 1-3; page 9, lines 9-10; page 9, lines 14-16; page 10, lines 1-10; page 10, line 25-page 11, line 3; page 11, lines 19-23; page 24, line 26-page 25, line 1; page 25, lines 14-17; page 25, line 26-29; and page 27, lines 3-5.
83	page 8, lines 10-15; page 9, lines 1-3; page 9, lines 9-10; page 9, lines 14-16; page 10, lines 1-10; page 10, line 25-page 11, line 3; page 11, lines 19-23; page 24, line 26-page 25, line 1; page 25, lines 14-17; page 25, line 26-29; and page 27, lines 3-5.

Applicants respectfully submit that claims 39-83, as presently pending, are in condition for allowance, and request early favorable action by the Examiner.

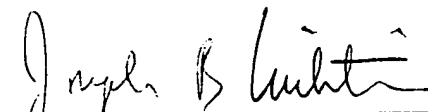
**Related Claims**

Applicants would like to bring to the Examiner's attention that new claims 82 and 83 are related to claims 13 and 14, that issued in parent U.S. Patent No. 6,369,834. While related, the claims are not identical.

**CONCLUSION**

Applicants respectfully request favorable action at the Examiner's earliest convenience. The Examiner is invited to call the undersigned Attorney, if the Examiner believes that a telephone conversation would be helpful in expediting prosecution of the instant application.

Respectfully submitted,



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